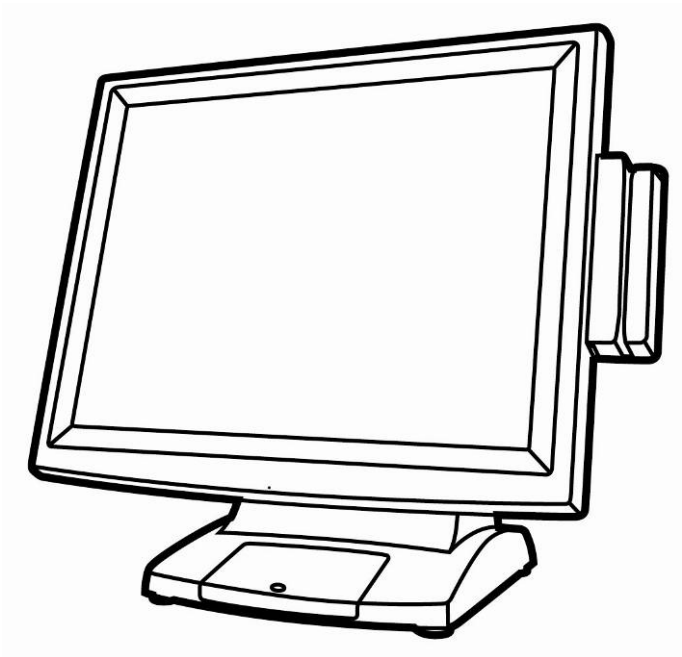
User Manual

Version 1.3 December 2012

Point-of-Sale Hardware System



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Manual Version 1.3
Part Number:

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Safety

IMPORTANT SAFETY INSTRUCTIONS

1. To disconnect the machine from the electrical Power Supply, turn off the power switch and remove the power cord plug from the wall socket. The wall socket must be easily accessible and in close proximity to the machine.
2. Read these instructions carefully. Save these instructions for future reference.
3. Follow all warnings and instructions marked on the product.
4. Do not use this product near water.
5. Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product.
6. Slots and openings in the cabinet and the back or bottom are provided for ventilation; to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register, or in a built-in installation unless proper ventilation is provided.
7. This product should be operated from the type of power indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.
8. Do not allow anything to rest on the power cord. Do not locate this product where persons will walk on the cord.
9. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

CE MARK

CE This device complies with the requirements of the EEC directive 2004/108/EC with regard to “Electromagnetic compatibility” and 2006/95/EC “Low Voltage Directive”

FCC

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference.

(2) This device must accept any interference received, including interference that may cause undesired operation

CAUTION ON LITHIUM BATTERIES

There is a danger of explosion if the battery is replaced incorrectly. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

Battery Caution

Risk of explosion if battery is replaced by an incorrectly type.
Dispose of used battery according to the local disposal instructions.

Safety Caution

Note: To comply with IEC60950-1 Clause 2.5 (limited power sources, L.P.S) related legislation, peripherals shall be 4.7.3.2 "Materials for fire enclosure" compliant.

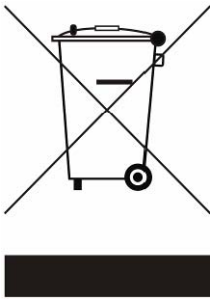
4.7.3.2 Materials for fire enclosures

For MOVABLE EQUIPMENT having a total mass not exceeding 18kg.the material of a FIRE ENCLOSURE, in the thinnest significant wall thickness used, shall be of V-1 CLASS MATERIAL or shall pass the test of Clause A.2.

For MOVABLE EQUIPMENT having a total mass exceeding 18kg and for all STATIONARY EQUIPMENT, the material of a FIRE ENCLOSURE, in the thinnest significant wall thickness used, shall be of 5VB CLASS MATERIAL or shall pass the test of Clause A.1

LEGISLATION AND WEEE SYMBOL

2012/19/EU Waste Electrical and Electronic Equipment Directive on the treatment, collection, recycling and disposal of electric and electronic devices and their components.



The crossed dustbin symbol on the device means that it should not be disposed of with other household wastes at the end of its working life. Instead, the device should be taken to the waste collection centers for activation of the treatment, collection, recycling and disposal procedure.
To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract.

This product should not be mixed with other commercial wastes for disposal.

Revision History

Revision	Date	Description
V1.0	Sep, 2009	● Release
V1.1	June, 2011	● C46 MB added
V1.2	July,2012	● C56 MB added
V1.3	December, 2012	● I/O port changed ● Rear cover changed ● MSR module changed

Table Contents

1 Item Checklist.....1

1-1 Standard Items.....1
1-2 Optional Items.....2

2 System View.....3

2-1 Front View.....3
2-2 Rear View.....4
2-3 Bottom View.....5
2-4 I/O View.....6

3 Peripherals Installation.....7

3-1 MSR Installation.....7
3-2 VFD Installation.....8
3-3 Second Display Installation.....10
3-4 Cash Drawer Installation.....12
3-5 Wall Mount Kit.....14

4 System Assembly & Disassembly..... 15

4-1 Replace the HDD.....15
4-2 Replace the Power Adapter.....16
4-3 Remove the System Stand.....16

5 Specification.....17

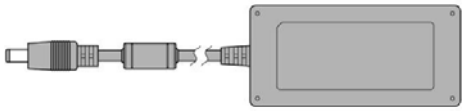
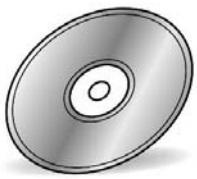
6 Jumper Settings..... 19

6-1 C36A Motherboard.....19
6-2 C46 Motherboard.....24
6-3 C56 Motherboard.....31

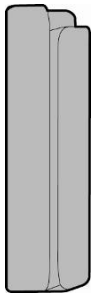
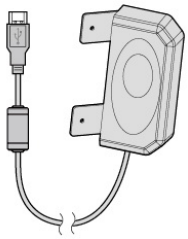
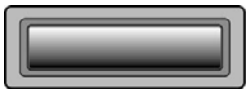
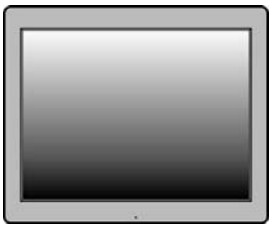
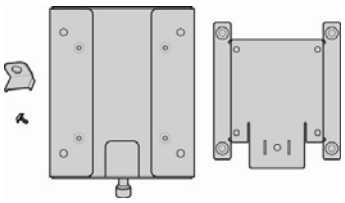
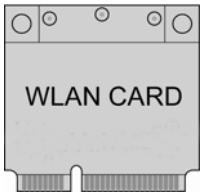
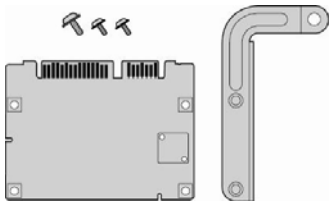
7 Appendix: Driver Installation.....37

1 Item Checklist

1-1 Standard Items

	
a. System	b. Power adapter (65W)
c. Power cable	d. COM-RJ45 cable (x2)
	
e. Driver CD	

1-2 Optional Items

	
a. MSR module	b. Finger print
	
c. VFD module	d. Second display
	
e. Wall mount kit	f. Wireless LAN card
	
g. SSD card module	

2 System View

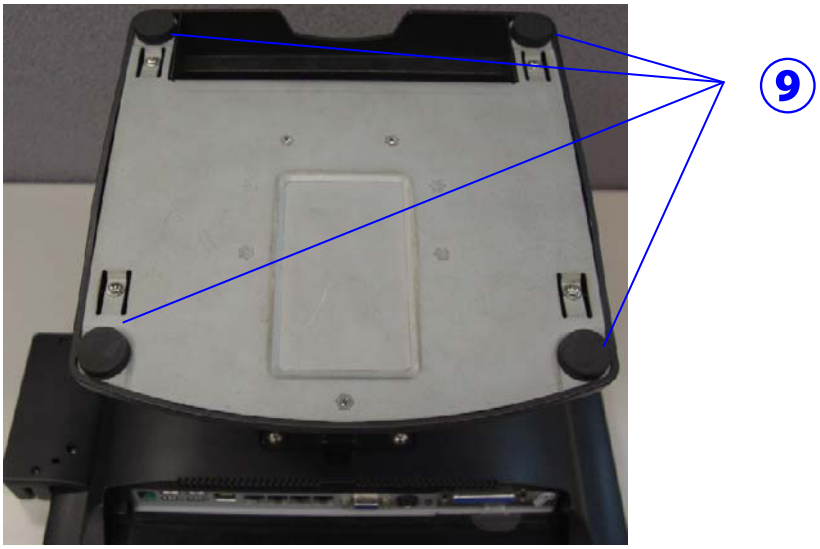
2-1 Front View

Number	Description
1	Touch screen
2	MSR module (Option)
3	Power button

2-2 Rear View

Number	Description
5	VFD cover (for VFD & Second display installation)
6	Stand/Wall mount kit installing place
7	Stand
8	Cable management outlet

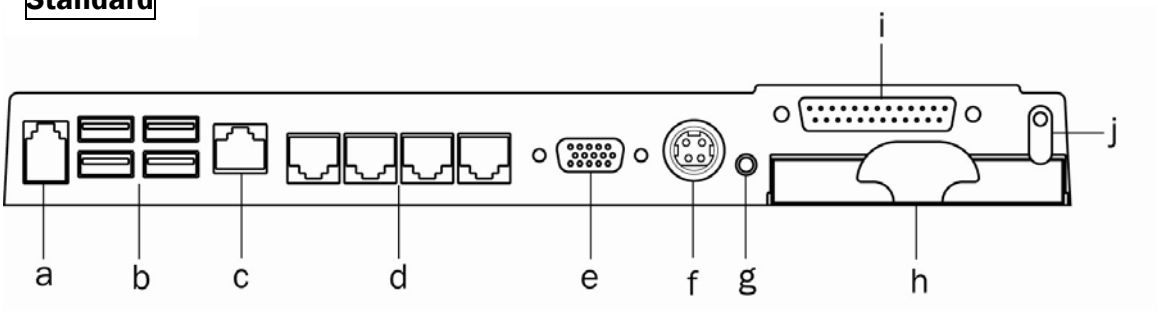
2-3 Bottom View



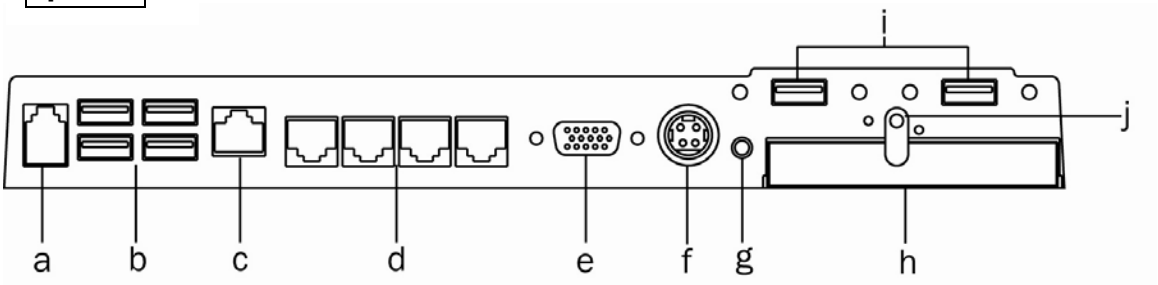
Number	Description
9	Stand pad

2-4 I/O View

Standard



Optional

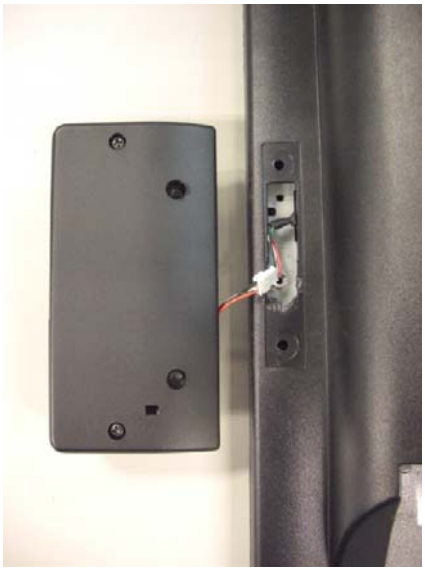


Number	Description
a	Cash drawer
b	USB x 4
c	LAN
d	COM1~4 (from right to left)
e	VGA
f	Power jack for system
g	Power button
h	HDD
i	Parallel (standard) / USB x 2 (optional)
j	HDD clip

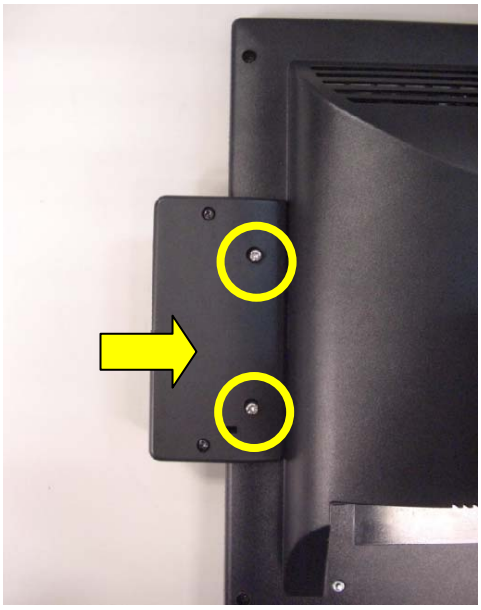
Note: The maximum current that can be drawn from each COM port is 500 mA.

3 Peripherals Installation

3-1 MSR Installation



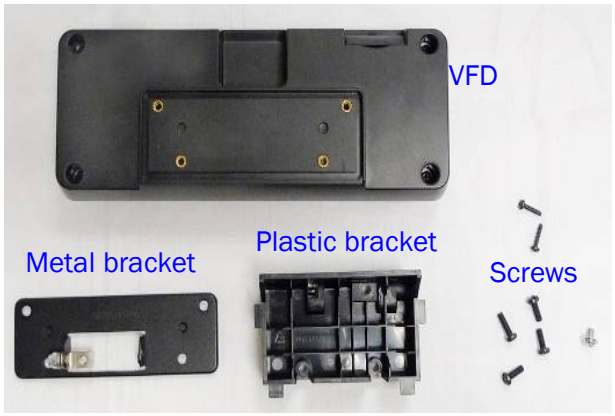
1. Open the dummy cover of the MSR.
2. Connect the MSR cable to the connector on the system.

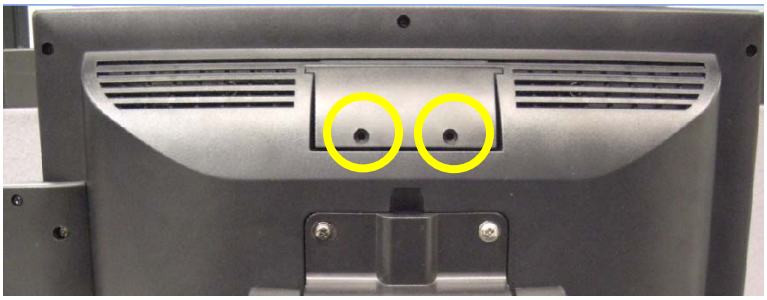


3. Insert the MSR module in place and fasten the screw (x2) on the back to secure the module.

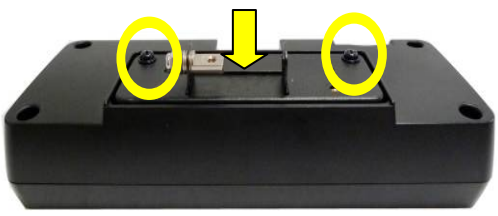
3-2 VFD Installation

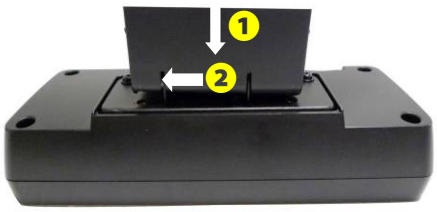
Accessories:



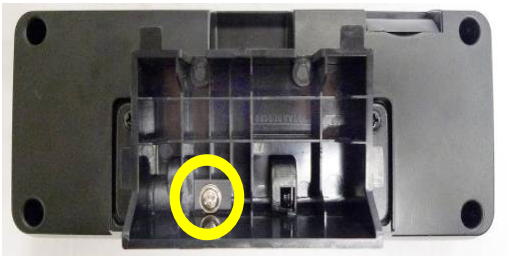


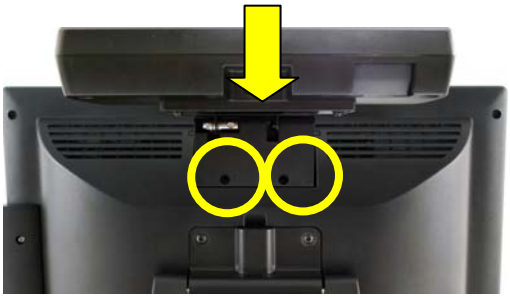
1. Remove the screws (x2) and slide the VFD cover outward.





2. Positioning the VFD metal bracket onto the rear side of the VFD module and fasten the screws (x2).
3. Positioning the plastic bracket onto the metal bracket as shown in the picture.





4. Fasten the screw (x1) to fix the plastic bracket to the metal bracket and VFD module.
5. Slide the VFD module with bracket into the VFD socket.
6. Fasten the screws (x2) to fix the VFD module.

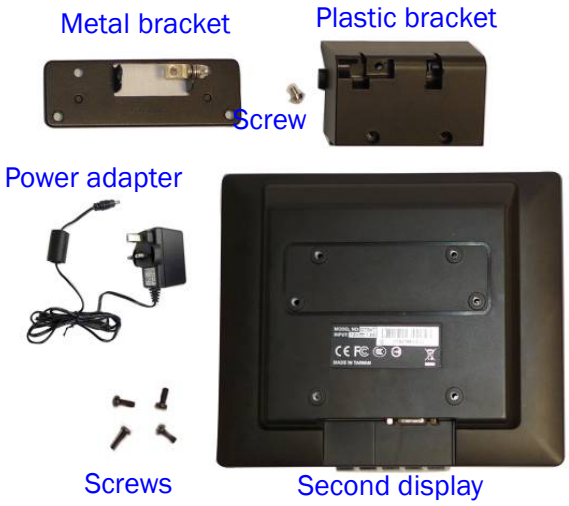
7. Connect the VFD cable to the VFD module.

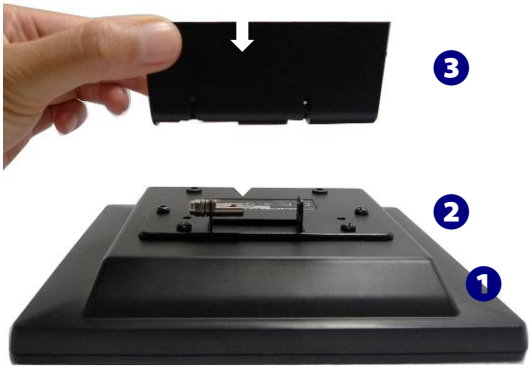
8. Connect the VFD cable to the COM4 port on the System.

3-3 Second Display Installation

To install the 8.4” second display, please open the VFD cover first (See chapter 3-2 step1).

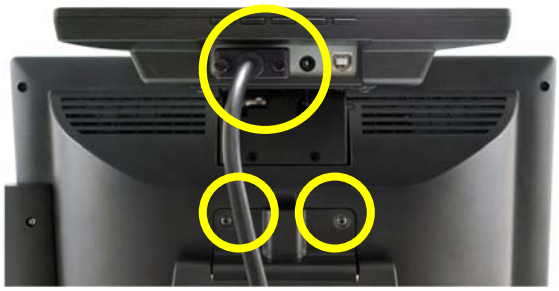
Accessories:

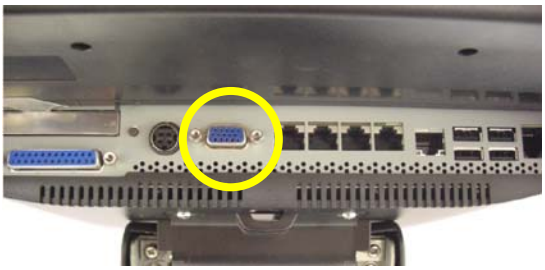




1. Place the system face down, make sure not to scratch the screen.
2. Place the metal bracket onto the rear side of the second display and fasten the screws (x4) to fix metal bracket with the system.
3. Align the plastic bracket onto the metal bracket, and push to the left side until it clicks in place.

4. Fasten the screw (x1) to fix the platic bracket and second display module with metal bracket.
5. Slide the second display module into the slot.



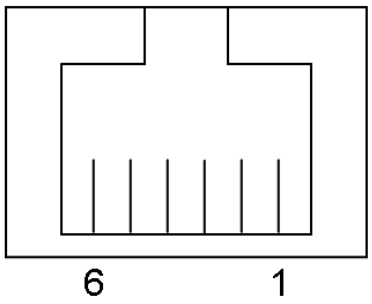


6. Fasten the scrws (x2) to fix the second display moudle with the system.
7. Connect the VGA cable to the second display module and the COM port on the system.

3-4 Cash Drawer Installation

You can install a cash drawer through the cash drawer port. Please verify the pin assignment before installation.

Cash Drawer Pin Assignment



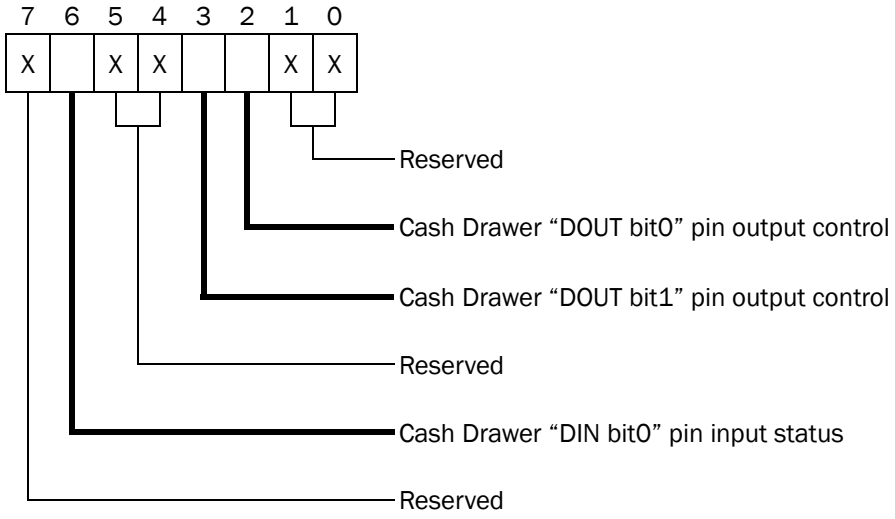
Pin	Signal
1	GND
2	DOUT bit0
3	DIN bit0
4	12V / 19V
5	DOUT bit1
6	GND

Cash Drawer Controller Register

The Cash Drawer Controller use one I/O addresses to control the Cash Drawer.

Register Location: 48Ch
Attribute: Read / Write
Size: 8bit

BIT	BIT7	BIT6	BIT5	BIT4	BIT3	BIT2	BIT1	BIT0
Attribute	Reserved	Read	Reserved		Write		Reserved	



Bit 7: Reserved

Bit 6: Cash Drawer “DIN bit0” pin input status.

= 1: the Cash Drawer closed or no Cash Drawer

= 0: the Cash Drawer opened

Bit 5: Reserved

Bit 4: Reserved

Bit 3: Cash Drawer “DOUT bit1” pin output control.

= 1: Opening the Cash Drawer

= 0: Allow close the Cash Drawer

Bit 2: Cash Drawer “DOUT bit0” pin output control.

= 1: Opening the Cash Drawer

= 0: Allow close the Cash Drawer

Bit 1: Reserved

Bit 0: Reserved

Note: Please follow the Cash Drawer control signal design to control the Cash Drawer.

Cash Drawer Control Command Example

Use Debug.EXE program under DOS or Windows98

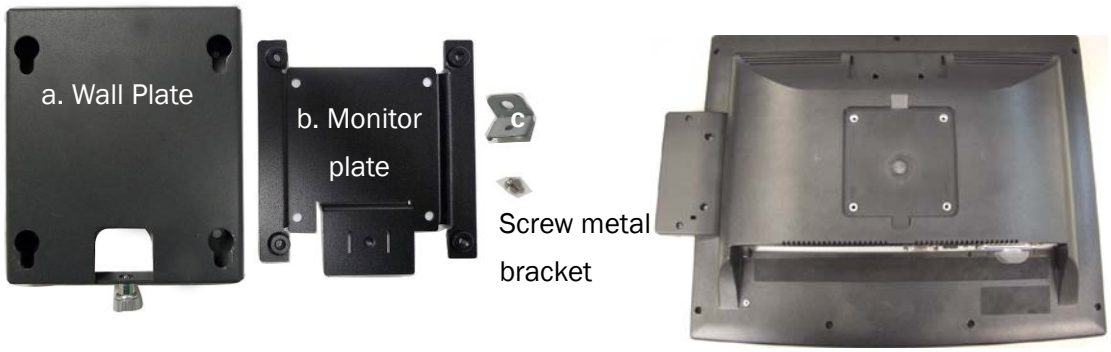
Command	**Cash Drawer**
O 48C 04	Opening
O 48C 00	Allow to close
➢ Set the I/O address 48Ch bit2 =1 for opening Cash Drawer by “DOUT bit0” pin control. ➢ Set the I/O address 48Ch bit2 = 0 for allow close Cash Drawer.	

Command	**Cash Drawer**
I 48C	Check status
➢ The I/O address 48Ch bit6 =1 mean the Cash Drawer is opened or not exist. ➢ The I/O address 48Ch bit6 =0 mean the Cash Drawer is closed.	

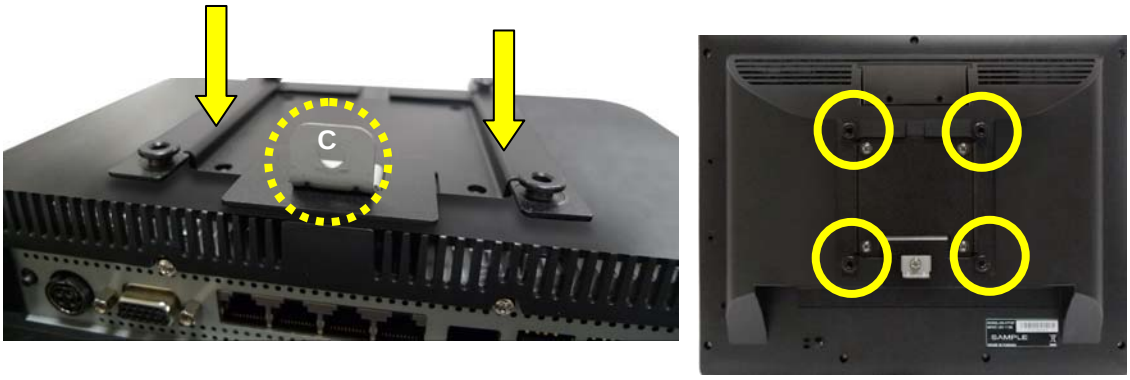
3-5 Wall Mount Kit

Before installing the Wall Mount Kit, please remove the stand first if needed. (See Chapter 4-3)

Accrssories **Place to install**



1. The wall mount Kit installing place is at the rear side of the system.



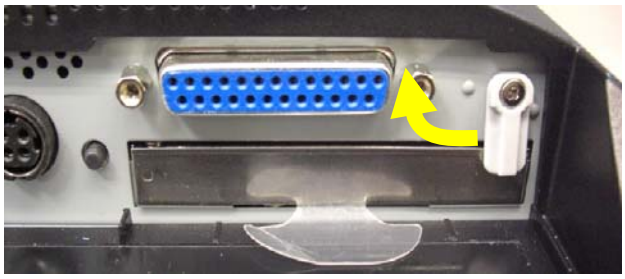
2. Place “b” onto the rear side of the LCD rear cover.
3. Place “c” onto the hole of the monitor plate and fasten the screw (x1).
4. Fasten the screws (x4) to fix the monitor plate.

5. Fix “a” on the wall.
6. Fasten the thumb screw (x1).
7. Align the large end of the teardrop mounting holes (x4) on the wall plate with the screws (x4) on the systems rear cover. Slide the wall plate until the screws are even with the narrow end.

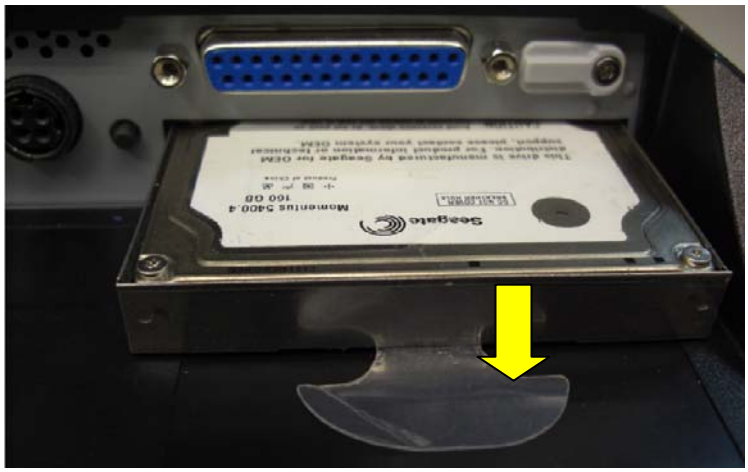
4 System Assembly & Disassembly

4-1 Replace the HDD

1. Place the system face down. Make sure not to scratch the screen.

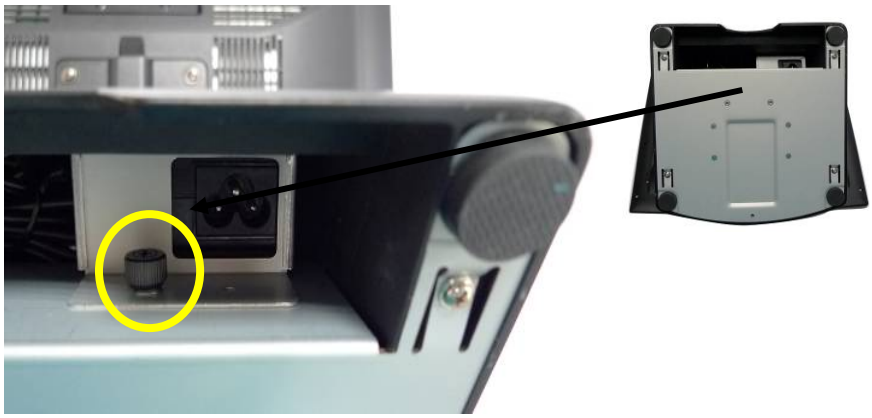


2. The HDD is secured by a clip, please push the clip aside as the picture shows.



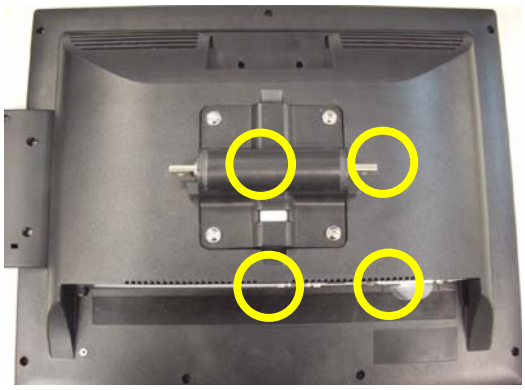
3. Pull the plastic tab (see picture) to remove the hard drive.

4-2 Replace the Power Adapter

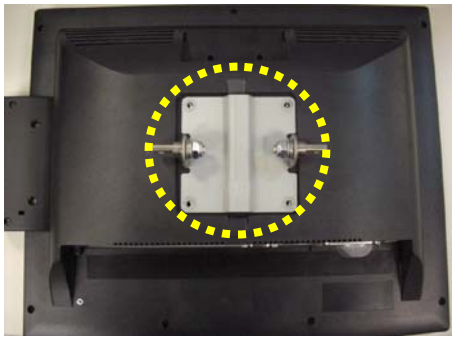


1. Unfasten the thumb screw (x1) to seperate the retaining metal bracket from the stand and take out the power adapter.

4-3 Remove the System Stand



1. Remove the screws (x2) that secure the stand and the system.
2. Remove the screws (x4) that fasten the plastic VESA mounting plate and the LCD rear cover.



3. Remove the VESA metal bracket,.

5 Specification

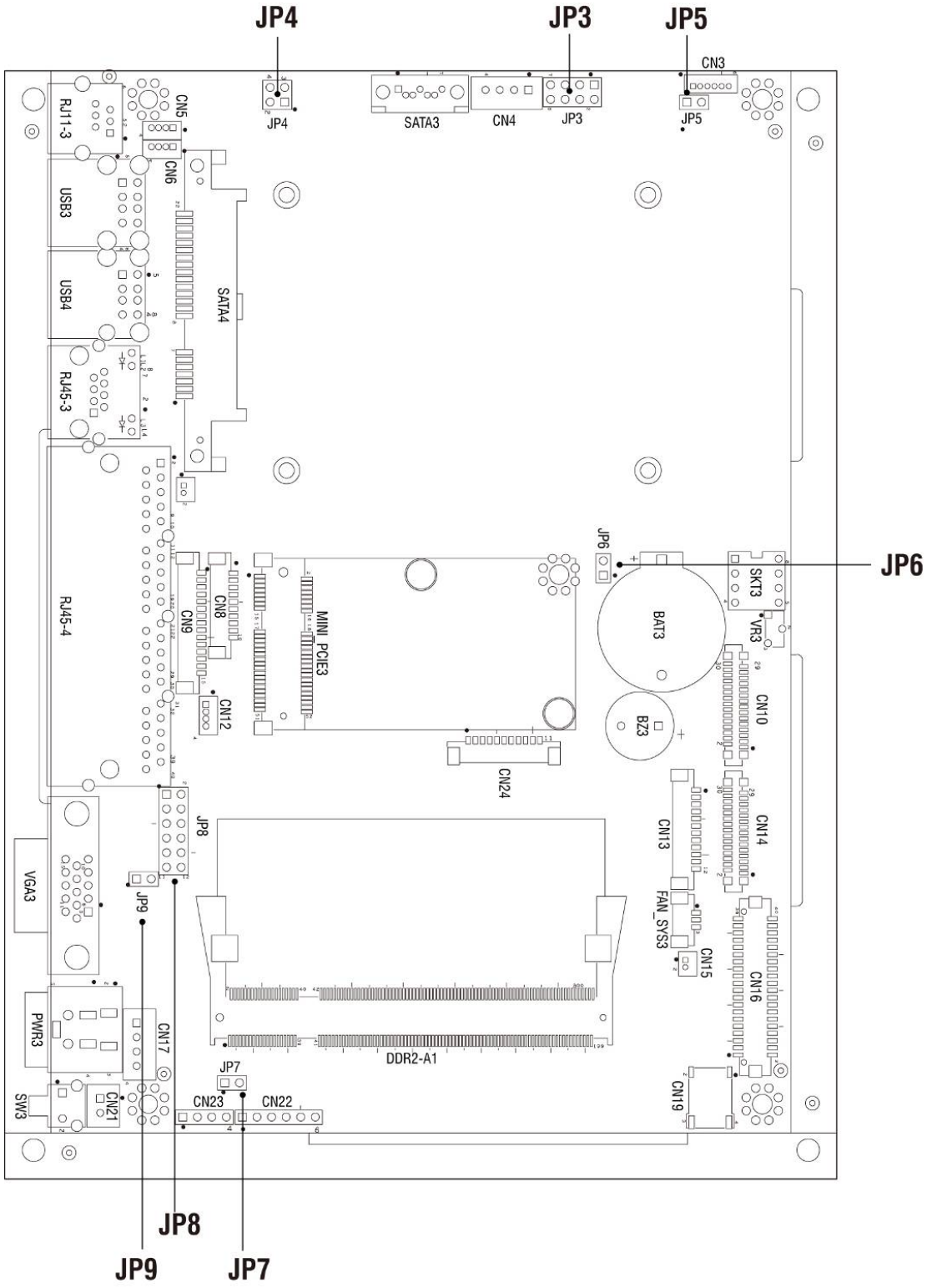
Model Name	**POS335**		
Motherboard	**C36**	**C46**	**C56**
CPU support	Intel Atom N270 processors 1.6G, L2 512K FSB 533MHz	Intel PineTrial D525 dual-core 1.8G, L2 1M, FSB667/ 800MHz	Intel Cedarview D2550 dual-core 1.86GHz, L2 1M
Chipset	Intel 945GSE Express chipset + ICH7M	CPU integrated graphic + ICH8M	CPU integrated graphic + NM10
System memory	1 x DDR2 SO-DIMM socket up to 2GB	1 x DDR3 SO-DIMM socket up to 2GB	1 x DDR3 SO-DIMM up to 4GB, 1066MHz
Graphic memory	Intel GMA 950 share system memory up to 224MB	Intel GMA 3150 share system memory up to 256MB	Intel GMA 3650 (Gfx frequency up to 640MHz), DX9
LCD Touch Panel			
LCD size	15” LED		
Brightness	250nits		
Maximal resolution	1024 x 768		
Touch screen type	Resistive		
Tilt angle	4° ~ 84°		
Storage			
HDD	One 2.5" SATA HDD bay		
Flash memory	SATA SSD flash card (option)		
Expansion			
PCI-E socket	1		
External I/O Ports			
Parallel	1 (one parallel port is included in standard packing; optional packing includes two additional USB port instead of parallel port)		
USB (V2.0)	4 or 6 (printer port is replaced with two additional USB)		
Serial / COM	4 x RJ-45 COM connectors (COM1 & COM2 standard RS-232; COM3 & COM4 pin10 with 5V /12V power by jumper)	4 x RJ-45 COM connectors (COM1 & COM2 standard RS-232; COM3 & COM4 pin10 with 5V /12V power by BIOS)	
LAN (10 /100 / 1000)	1 x RJ45		

Model Name	**POS335**		
Motherboard	**C36**	**C46**	**C56**
DC jack	1		
E-SATA interface	DC-OUT, E-SATA		N/A
2nd VGA	1	1 (DB-15 Female, power by BIOS configuration)	
Cash drawer	1 (19V)	1 (12V/24V cash drawer power by BIOS configuration)	
Audio			
Speaker	2 x 2W speakers (Option)		
Power			
Power adapter	65W, 19V/3.42A		
Control / Indicator			
Power button	1		
Indicator LED	1		
Peripherals			
Finger print	Digital personal module (USB)		
MSR module	MSR (USB)		
Customer display	2 x 20 VFD customer display (COM)		
Second display	8.4" 2nd display without touch		
Communication			
Wireless LAN	802.11 b/g/n wireless LAN card & antenna (Option)		
Environment			
EMC & Safety	FCC/CE Class A, LVD		
Operating temperature	0°C ~ 35°C (32°F ~ 95°F)		
Storage temperature	-20°C ~ 60°C (-4°F ~ 140°F)		
Humidity	20% ~ 85% RH non condensing		
Dimension (W x D x H)	LCD 4 degree : 365.2 x 296.2 x 282.2 mm		
	LCD 84 degree : 365.2 x 217.8 x 343.1 mm		
Weight (N.W./G.W.)	5.8kgs / 6.8kgs		
Mounting	100mm x100mm VESA standard holes		
OS support	Windows® XP Professional, Windows Embedded, POSReady 2009, Windows XP Embedded, Windows XP Professional for Embedded, WinCE, Windows 7, Linux		
* This specification is subject to change without prior notice.			

6 Jumper Settings

6-1 C36A Motherboard

6-1-1 Motherboard Layout



6-1-2 Connectors & Functions

Connector	Function
BAT3	CMOS Battery Base (Use CR2023)
CN3	Speaker & MIC Connector
CN4	Power Connector For HDD
CN5	USB5
CN6	USB7
CN9	Card Reader Connector
CN12	IrDA Connector
CN13	Inverter Connector
CN15	Power LED
CN16	LCD Interface Connector
CN21	Internal Power On Switch Connector
CN22	5 Wire Touch
CN24	FT Status Interface
DDR2_A1	DDR2 SO-DIMM
PWR3	+19V Power Adaptor
RJ11_3	Cash Drawer Connector
RJ45_3	LAN (On Board)
RJ45_4	COM1, COM2, COM3, COM4
FAN_SYS3	System FAN Connector
MINI_PCIE3	Mini PCI-E Socket
SATA3	SATA Connector
SKT3	SPI ROM
SW3	Power On Button
USB3	USB1, USB2
USB4	USB3, USB4
VGA3	VGA Port

6-1-3 Jumper Settings

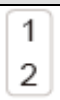
Cash Drawer Power Setting

Function	JP4 (1-2) (3-4)
+12V	
▲+19V	

Power Mode Setting

Function	JP5 (1-2)
▲ATX Power	
AT Power	

CMOS Operation Mode

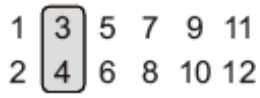
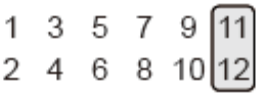
Function	JP6 (1-2)
▲CMOS Normal	
CMOS Reset	

System Reset Setting

Function	JP7 (1-2)
▲Normal	
Reset	

▲ = Manufacturer Default Setting OPEN SHORT

COM3 & COM4 Power Setting

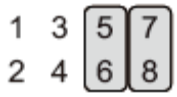
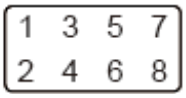
Function		JP8 (1-2) (3-4) (5-6) (7-8) (9-10) (11-12)
COM3 Pin10	RI	
	▲+5V	
	+12V	
COM4 Pin10	RI	
	+5V	
	▲+12V	

VGA Power Setting

Function	JP9 (1-2)
▲No Power	
+12V	

▲ = Manufacturer Default Setting OPEN SHORT

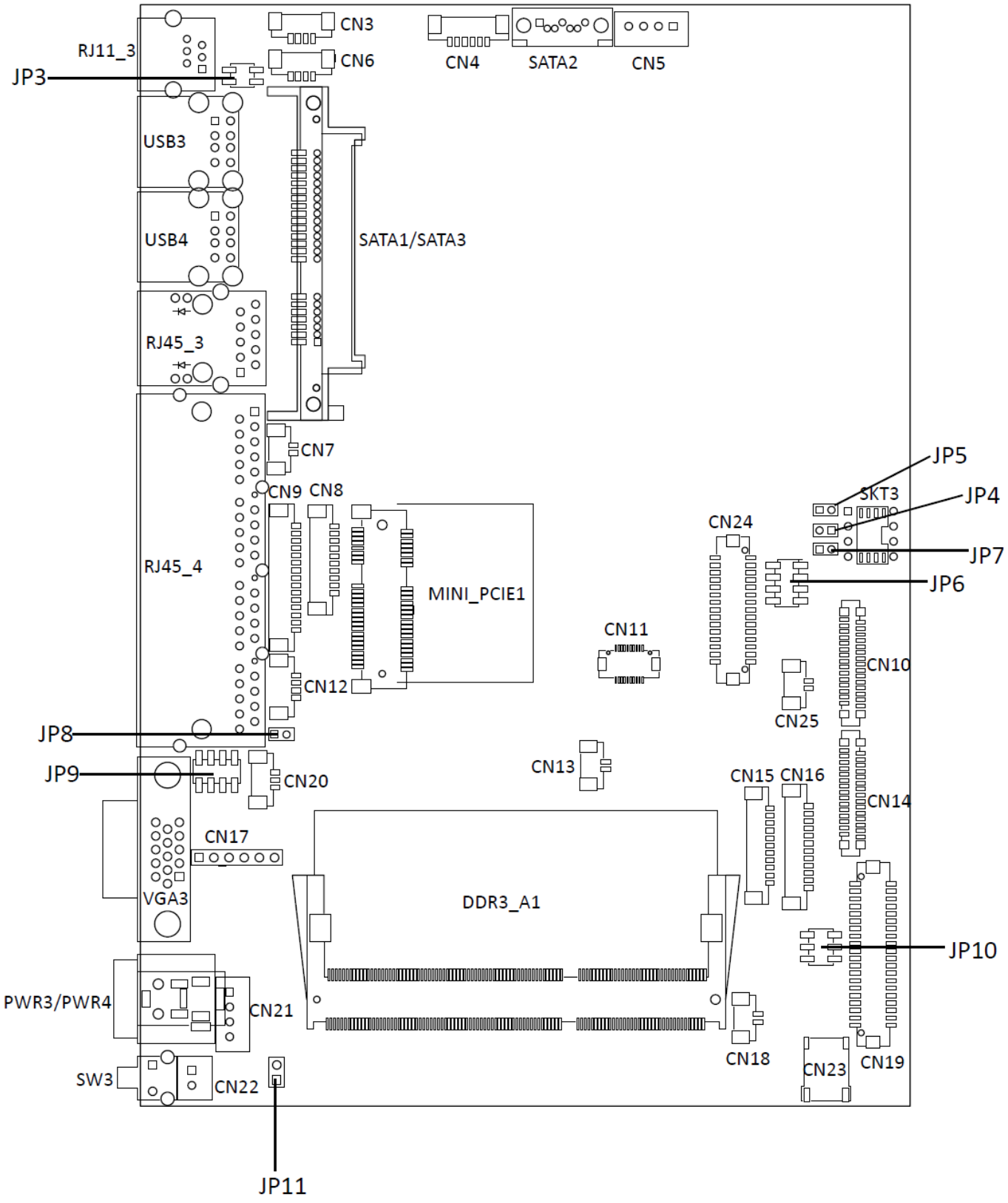
LCD ID Setting

Panel Number	Resolution			LVDS		JP3 (1-2) (3-4) (5-6) (7-8)
				Bits	Channel	
1	1024	x	768	24	Single	
2	1280	x	1024	24	Dual	
3	800	x	600	18	Single	
4	1024	x	768	18	Single	

▲ = Manufacturer Default Setting OPEN SHORT

6-2 C46 Motherboard

6-2-1 Motherboard Layout



6-2-2 Connectors & Functions

Connector	Function
CN3	USB
CN4	Speaker & MIC CONN
CN5	SATA Power
CN6	USB
CN8	For external Touch
CN9	Card reader
CN12	PS2 Keyboard
CN13	HDD LED CONN
CN16	Inverter
CN17	TUOCH
CN18	Power LED CONN
CN19	LVDS (24bit)
CN20	SYSTEM FAN
CN21	DC-JACK
CN22	POWER BOTTOM CONN
CN25	Battery CONN
PWR3	DDR3 SO-DIMM1
RJ11_3	SATA Connector
RJ45_3	SATA Connector
RJ45_4	Power Button
SATA2	CMOS Operation Mode
SKT3	VGA Port
USB3	COM2 RS232/485/422 Setting
USB4	LCD ID Setting
VGA3	Power Mode Setting
JP3	Cash Drawer power selection
JP4	AT/ATX
JP5	CMOS Operation Mode
JP6	LCD ID Setting
JP7	H/W RESET
JP8	CRT Power Setting
JP9	COM Power Setting
JP10	Inverter Selection

6-2-3 Jumper Settings

Cash Drawer Power Setting

Function	JP3 (1-2) (3-4)
▲+19V	
+12V	

Power Mode Setting

Function	JP4 (1-2)
▲ATX Power	
AT Power	

System Reset

Function	JP7 (1-2)
▲System Normal	
System Reset	

CRT Power Ctrl

Function	JP8 (1-2)
▲HW	
BIOS	

▲ = Manufacturer Default Setting OPEN SHORT

CMOS Operation Mode

CMOS Reset

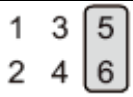
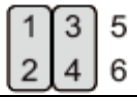
To clear the CMOS,

1. Remove the power cable from the system.
2. Open the system, and set the 'CMOS Operation jumper' from 'CMOS Normal' to 'CMOS Reset'. (refer to the jumper shown below)
3. Connect the power cable to the system, and **power on the system:**
   in ATX mode: press the power button and it will fail power on
   in AT mode: turn on system power
4. Remove the power cable from the system.
5. Return the "CMOS Operation mode" jumper setting from "CMOS Reset" to "CMOS normal".
6. Connect the power cable and power on the system.

CMOS Operation Mode

Function	JP5 (1-2)
▲CMOS Normal	
CMOS Reset	

Inverter Selection

Function	JP10 (1-2) (3-4) (5-6)
▲CCFL	
LED	

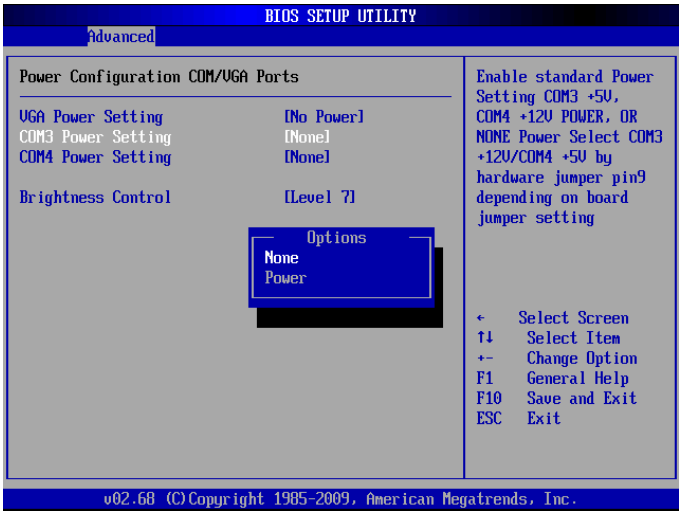
▲ = Manufacturer Default Setting OPEN SHORT

COM3 & COM4 Power Setting

COM3 and COM4 can be set to provide power to your serial device.
The voltage can be set to +5V or +12V by setting jumper JP9 on the motherboard.
When enabled, the power is available on pin 10 of the RJ45 serial connector.
If you use the serial RJ45 to DB9 adapter cable, the power is on pin 9 of the DB9 connector. By default, the power option is **disabled i**n the BIOS.

1. Power on the system, and press the <DEL> key when the system is booting up to enter the BIOS Setup utility.
2. Select the Advanced tab
3. Select **Power Configuration COM/VGA** Ports and press <Enter> to go to display the available options.

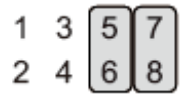
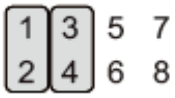
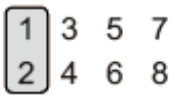
4. To enable the power, select COM3 Power Setting or COM4 Power setting and press <Enter>. Select Power and press <Enter>.
   Save the change by pressing F10.



COM 3 & COM4 Power Setting

Function	JP9 (1-2) (3-4) (5-6) (7-8)
▲COM3 +5V	1 3 5 7 2 4 6 8
COM3 +12V	1 3 5 7 2 4 6 8
COM4 +5V	1 3 5 7 2 4 6 8
▲COM4 +12V	1 3 5 7 2 4 6 8

LCD ID Setting

Resolution			LVDS/TTL		Output Interface	JP6 (1-2) (3-4) (5-6) (7-8)
			Bits	Channel		
800	X	600	24	Single	1st: LCD Panel 2nd: VGA Port	
1024	x	768	24	Single		
1366	x	768	24	Single		
800	x	600	18	Single		
*800	x	600	18	Single		
1024	x	768	18	Single		
					CRT only (Pineview CRT only)	

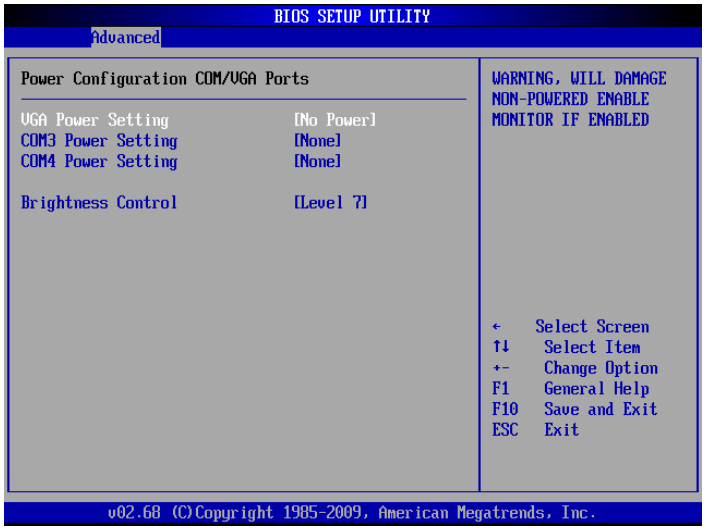
*Note: specialized for Sharp 12.1" LQ121S1LG41/LQ121S1LG42 panel.

2nd VGA Power Setting

VGA port power must be enabled through BIOS/Utility. The Default Setting is "No Power".

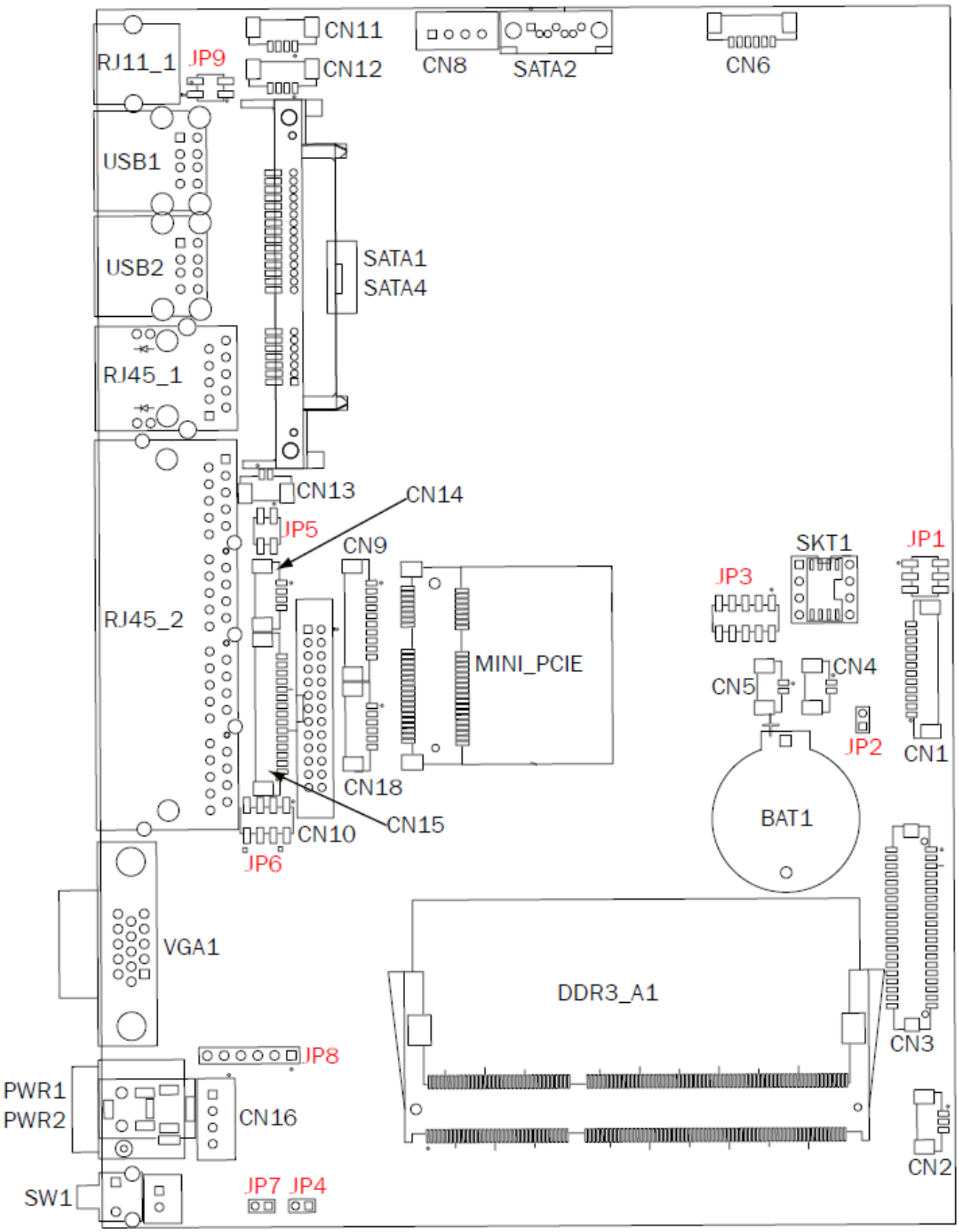
1. Power on the system, and press the <DEL> key when the system is booting up to enter the BIOS Setup utility.
2. Select the Advanced tab
3. Select "Power Configuration COM/VGA Ports" and press <Enter> to go to display the available options.

4. To switch on the power, select "+12V" press <Enter>. Please Save the change by pressing F10.



6-3 C56 Motherboard

6-3-1 Motherboard Layout



6-3-2 Connectors & Functions

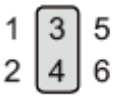
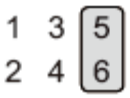
Connectors	Functions
CN1	LVDS Inverter Connector
CN2	System FAN Connector
CN3	LVDS Connector
CN4	Power LED Connector
CN5	SATA LED Connector
CN6	Speaker & MIC Connector
CN8	SATA Power Connector
CN9	COM5(Touch) Connector
CN10	Printer Port Connector
CN11/12	USB Port(Internal)
CN13	LAN LED Connector
CN14	PS2 Keyboard Connector
CN15	Card Reader Connector(COM6)
CN16	+19V DC IN Connector
CN17	Power button(Internal)
CN18	Front I/O Connector(USB/power LED/ Power button)
PWR2/3	+19V DC JACK
RJ11_1	Cash Drawer Connector
RJ45_1	LAN Connector
RJ45_2	COM1/ COM2/ COM3/ COM4
DDR2_A1	DDR3 SO-DIMM
SATA1/2/4	SATA Connector
SKT1	BIOS Connector
USB1	USB6 USB7
USB2	USB4 USB5
VGA1	VGA Connector
SW1	Power button
JP1	Inverter Select
JP2	CMOS Operation Mode
JP3	LCD ID Setting
JP4	H/W Reset
JP5	COM2 Power Setting
JP6	COM3/COM4 Power Setting
JP7	Auto Button Setting
JP8	Touch Connector
JP9	CASH DRAWER Power Setting

6-3-3 Jumper Settings

Cash Drawer Power Setting

Function	**JP9** (1-2) (3-4)
▲+19V	
+12V	

Inverter Selection

Function	**JP1** (1-2) (3-4) (5-6)
▲LED	
CCFL	

COM2 Power Setting

Function	**JP5** (1-2) (3-4)
▲ No Power	
COM2 +5V	
COM2 +12V	

▲ = Manufacturer Default Setting OPEN SHORT

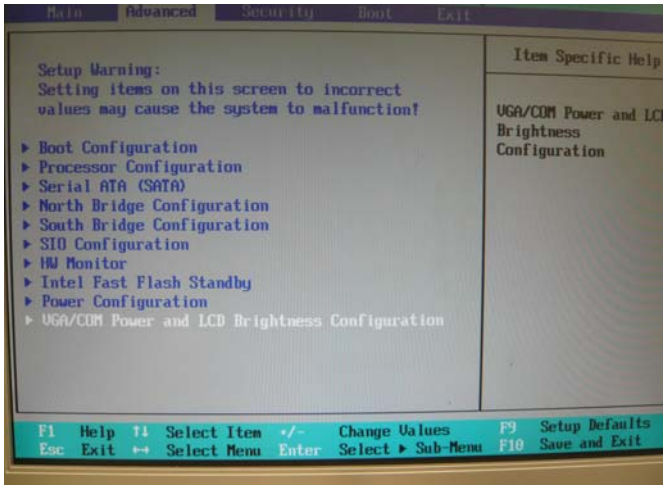
COM 3 & COM4 Power Setting

Function	JP6 (1-2) (3-4) (5-6) (7-8)
▲COM3 +5V	
COM3 +12V	
COM4+ 5V	
▲COM4 +12V	

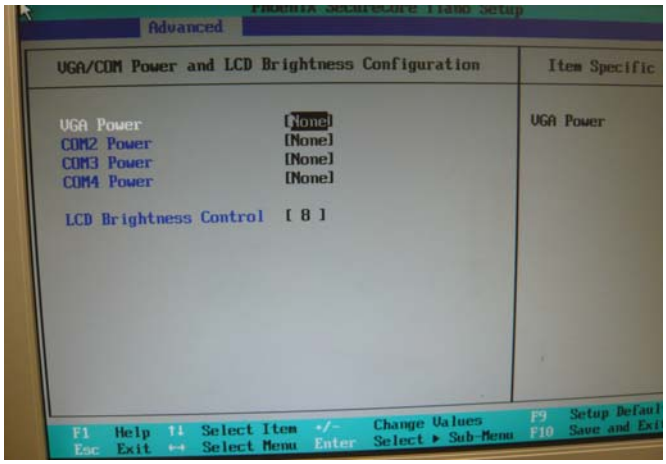
COM2/COM3/COM4 Power Setting

COM2, COM3 and COM4 can be set to provide power to your serial device. The voltage can be set to +5V or +12V by setting jumper JP5 and JP6 on the motherboard. When enabled, the power is available on pin 10 of the RJ45 serial connector. If you use the serial RJ45 to DB9 adapter cable, the power is on pin 9 of the DB9 connector. By default, the power option is **disabled** in the BIOS.

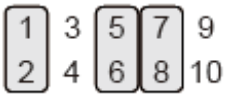
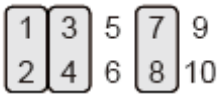
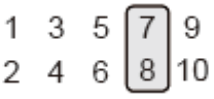
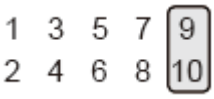
1. Power on the system, and press the <DEL> key when the system is booting up to enter the BIOS Setup utility.
2. Select the Advanced tab.
3. Select **VGA/COM Power and LCD Brightness Configuration** Ports and press <Enter> to go to display the available options.



4. To enable the power, select COM2 , COM3 or COM4 Power setting and press <Enter>. Select Power and press <Enter>. Save the change by pressing F10.



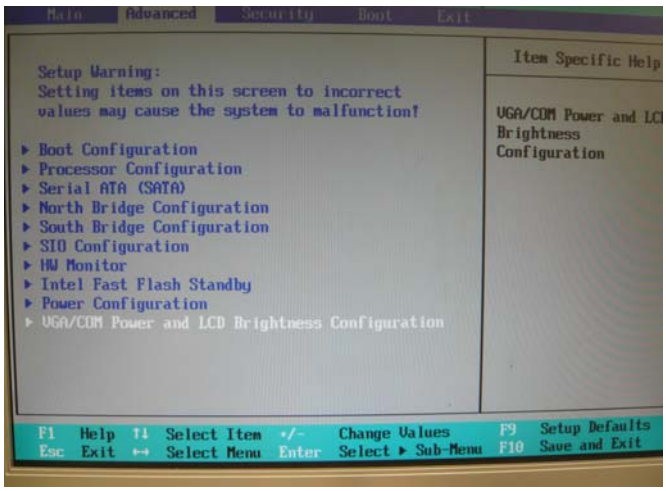
LCD ID Setting

Panel Number	Resolution	LVDS		Output Interface	JP3 (1-2) (3-4) (5-6) (7-8) (9-10)
		Bits	Channel		
1	800 x 600	18	Single	LVDS Panel	
2	800 x 600	18	Single	LVDS Panel	
3	800 x 600	24	Single	LVDS Panel	
4	1024 x 600	18	Single	LVDS Panel	
5	1024 x 768	18	Single	LVDS Panel	
6	800 x 600	24	Single	LVDS Panel	
7	1024 x 768	24	Single	LVDS Panel	
10	1366 x 768	18	Single	LVDS Panel	
11	1366 x 768	24	Single	LVDS Panel	
				CRT	

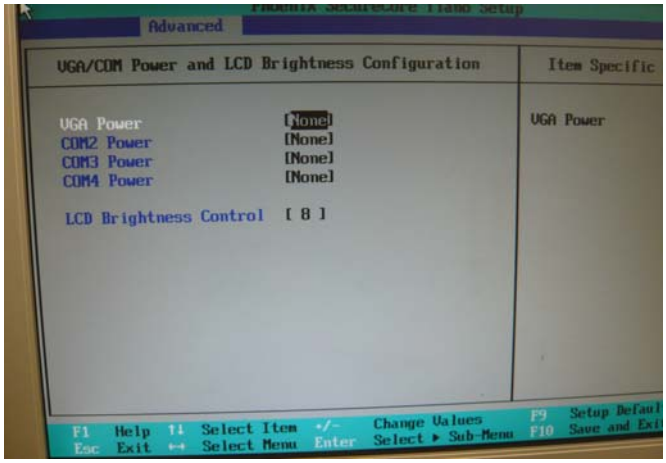
*Panel No.6 for 8.4” (HSD0841SN1-A01)HANNSTAR and 10.4” (A1048N03 V.1) AUO

2nd VGA Power Setting

1. Power on the system, and press the <DEL> key when the system is booting up to enter the BIOS Setup utility.
2. Select the Advanced tab.
3. Select **VGA/COM Power and LCD Brightness Configuration** Ports and press <Enter> to go to display the available options.



4. To switch on the power, select "+12V" press <Enter>. Please Save the change by pressing F10.



7 Appendix: Driver Installation

The shipping package includes a Driver CD. You can find every individual driver and utility that enables you to install the drivers in the Driver CD.
Please insert the Driver CD into the drive and double click on the “index.htm” to pick the models. You can refer to the drivers installation guide for each driver in the “Driver/Manual List”.